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phenotypes      sexual      testosterone  
testo

AB Three new compds., terretribisamide (I), 25R-spirost-4-en-3,12-dione (II), and tribulusterine (III), together with other known compds., N-p-coumaroyltyramine, terrestriamide, hecogenin, aurantiamide acetate, xanthosine, ferulic acid, vanillin, p-hydroxybenzoic acid, and .beta.-sitosterol, were isolated and characterized from dried fruits of Tribulus terrestris. Structures of the new compds. were detd. by spectral anal.

ST terretribisamide alkaloid isolation structure Tribulus terrestris; tribulusterine alkaloid isolation structure Tribulus terrestris; spirostendione alkaloid isolation structure Tribulus terrestris; mol structure terretribisamide tribulusterine isolation Tribulus; configuration terretribisamide tribulusterine isolation Tribulus

IT Tribulus terrestris (isolation and mol. structure of alkaloids, terretribisamide, 25R-spirost-4-en-3,12-dione and tribulusterine, and other constituents from Tribulus terrestris)

IT Alkaloids, biological studies  
RL: BOC (Biological occurrence); BSU (Biological study, unclassified);

PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)  
(isolation and mol. structure of alkaloids, terretribisamide, 25R-spirost-4-en-3,12-dione and tribulusterine, and other constituents from Tribulus terrestris)

IT Configuration  
Molecular structure  
(of terretribisamide, 25R-spirost-4-en-3,12-dione and tribulusterine, alkaloids from Tribulus terrestris)

IT New natural products  
(terretribisamide (alkaloid))

IT New natural products  
(tribulusterine (alkaloid))

IT 6875-60-1P, (-)-(25R)-Spirost-4-ene-3,12-dione 91000-13-4P  
234750-74-4P, Tribulusterine  
RL: BOC (Biological occurrence); BSU (Biological study, unclassified);

PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)  
(isolation and mol. structure of alkaloids, terretribisamide, 25R-spirost-4-en-3,12-dione and tribulusterine, and other constituents from Tribulus terrestris)

IT 83-46-5P, .beta.-Sitosterol 99-96-7P, p-Hydroxybenzoic acid, biological studies 121-33-5P, Vanillin 146-80-5P, Xanthosine 467-55-0P, Hecogenin 1135-24-6P, Ferulic acid 20375-37-5P, N-p-Coumaroyltyramine 56121-42-7P, Aurantiamide acetate 157536-49-7P, Terrestriamide  
RL: BOC (Biological occurrence); BSU (Biological study, unclassified);

PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)  
(isolation and mol. structure of alkaloids, terretribisamide, 25R-spirost-4-en-3,12-dione and tribulusterine, and other constituents from Tribulus terrestris)

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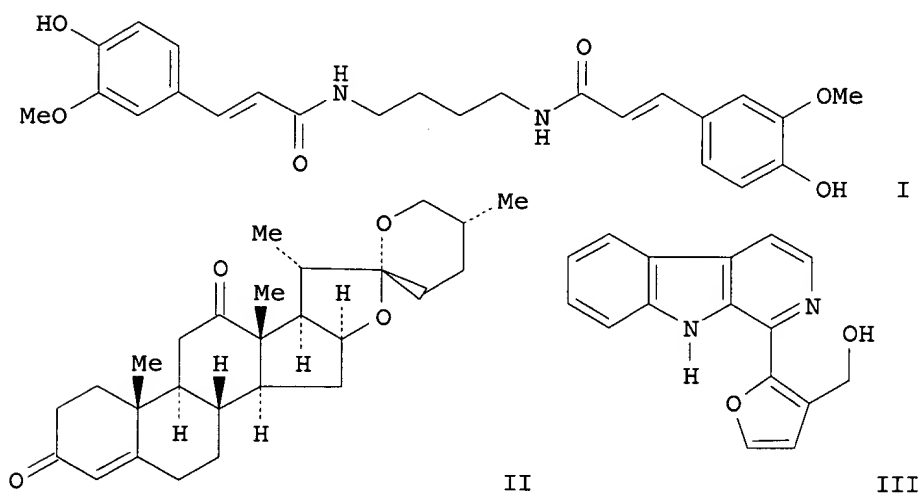
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(1) Agarwal, P; Phytochemistry 1985, V24, P2479  
(2) Anon; 1977 CAPLUS  
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L9 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS  
AN 1999:314287 CAPLUS  
DN 131:127594  
TI Alkaloids and other constituents from *Tribulus terrestris*  
AU Wu, Tian-Shung; Shi, Li-Shian; Kuo, Shang-Chu  
CS Department of Chemistry, National Cheng Kung University, Tainan, Taiwan  
SO Phytochemistry (1999), 50(8), 1411-1415  
CODEN: PYTCAS; ISSN: 0031-9422  
PB Elsevier Science Ltd.  
DT Journal  
LA English  
CC 11-1 (Plant Biochemistry)  
Section cross-reference(s): 22, 31  
GI



AB Three new compds., terrestribisamide (I), 25R-spirost-4-en-3,12-dione (II), and tribulusterine (III), together with other known compds., N-p-coumaroyltyramine, terrestriamide, hecogenin, aurantiamide acetate, xanthosine, ferulic acid, vanillin, p-hydroxybenzoic acid, and .beta.-sitosterol, were isolated and characterized from dried fruits of *Tribulus terrestris*. Structures of the new compds. were detd. by spectral anal.

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IT *Tribulus terrestris*  
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structure terretribisamide tribulusterine isolation Tribulus;  
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(isolation and mol. structure of alkaloids, terretribisamide,  
25R-spirost-4-en-3,12-dione and tribulusterine, and other constituents  
from Tribulus terrestris)

L5 ANSWER 5 OF 5 WPIDS (C) 2003 THOMSON DERWENT

ACCESSION NUMBER: 1985-049835 [08] WPIDS

DOC. NO. CPI: C1985-021749

TITLE: Nutritionally complete liquid diet - comprises protein,  
lipid, carbohydrate, vitamin(s), minerals, stabiliser  
and

acid in water.

DERWENT CLASS: B05 D13

INVENTOR(S): LARSON, D M; REYES, J

PATENT ASSIGNEE(S): (MEAD) MEAD JOHNSON & CO

COUNTRY COUNT: 1

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
US 4497800	A	19850205	(198508)*		6

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
US 4497800	A	US 1982-395515	19820706

PRIORITY APPLN. INFO: US 1982-395515 19820706

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FILE 'EUROPATFULL, PCTFULL, USPAT2, WPIDS' ENTERED AT 15:56:24 ON 18 MAR 2003

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FILE 'INPADOC' ENTERED AT 15:57:08 ON 18 MAR 2003

L2 1 S L1

L3 1 S US20020068728/PN

FILE 'EUROPATFULL, PCTFULL, USPAT2, WPIDS' ENTERED AT 15:58:51 ON 18 MAR 2003

E REYES J/IN

L4 25 S E3-E12

L5 5 S L4 AND COMPOSITION

=> s l4 and (libido or impotent or erect?)

L6 1 L4 AND (LIBIDO OR IMPOTENT OR ERECT?)

centuries by Brazilian natives for virility enhancement, sexual stimulation, and stress management.*	
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## RESEARCH BRIEF:

Sexual intercourse is nature's way of passing genetic material from one generation to the next, but sex also plays an important role in the emotional closeness and relationship health of couples. For both genders, the sex act unfolds through a process of erection, lubrication, and sexual orgasm.

Female reproductive organs include the ovaries, uterine (Fallopian) tubes, uterus, vagina, vulva, and mammary glands. Psychic or tactile stimulation causes female sexual erection as muscles relax and blood flow increases to the genital area. Females provide the majority of lubrication during sexual intercourse, and female orgasm involves muscle contractions that aid the journey of the sperm. As females age, production of progesterone and estrogen slows, fertility gradually decreases until it stops at menopause, and sexual lubrication and tissue elasticity can decrease. Common female sexual complaints include pain or spasms during intercourse, total inability to reach orgasm, and lack of sexual arousal.

Male reproductive structures include the testes, ductus epididymis, ductus (vas) deferens, ejaculatory duct, urethra, seminal vesicles, prostate gland, bulbourethral (Cowper's) glands, and penis. The male erection can be triggered by anticipation, memory, visual sensation, or direct stimulation. For erection to occur, the arteries of the penis must dilate so blood can distend the organ. Males provide minimal lubrication during sexual intercourse, but male orgasm involves the mixture and ejaculation of a complex fluid that contains sperm. As males age, testosterone levels gradually decline, resulting in less muscle strength, fewer viable sperm, and decreased sexual desire. Common male sexual complaints include difficulties starting or maintaining an erection, ejaculating too soon, inability to ejaculate, and loss of sex drive.

## Scientific literature related to the ingredients of **ArginMax®**

### SOURCES:



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# Ingredients / Research / References / FAQ's

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## Ingredient Glossary:

**Both male and female LoveRx™ contain the following:**

**L-arginine** is the building block for nitric oxide, a crucial substance that increases blood flow to the genitals by relaxing smooth muscle and expanding blood vessels. In 1998 the Nobel Prize for physiology was given for the discovery of the relationship between L-arginine and nitric oxide.\*

**Korean ginseng** has been used for thousands of years in Asia to enhance sexual function by improving circulation and neurological processes.\*

**Ginkgo biloba**, the oldest living plant on earth, improves capillary microcirculation in the genitals and elsewhere.\*

**Tribulus terrestris**, also known as puncture vine, helps increase testosterone, which triggers both male and female sexual appetite and arousal.\*

**Ashwaganda**, an herb widely used in India as a sexual tonic, is sometimes called Indian ginseng because it offers similar energy-promoting benefits and helps combat stress and fatigue.\*

**B vitamins** contribute to energy metabolism in several important ways. Folic acid, B12, and B6 are necessary to keep blood vessels healthy.\*

**Zinc** is a key mineral found in the human reproductive system. Studies have linked reduced zinc levels with sexual dysfunction.\*

**Enrich Activator Blend™** contains ginger, BioPerine®, and capsicum to help ensure maximum absorption.\*

**In addition to the above, LoveRx™ for Men contains the following:**

**Muiru puama**, also known as potency wood and raiz del macho (root of the male), has been used for

**Maca root**, also known as Amazon ginseng, has been used by native Peruvians as an aphrodisiac and to increase energy, vitality, stamina, and endurance.\*

**Barrenwort** (also known as horny goat weed) improves sexual desire, sexual satisfaction, and the ability to achieve and maintain an erection. It is reputed to stimulate sperm production and semen secretion.\*

**Velvet bean** (also known as mucuna pruriens) is used as an aphrodisiac in India's Ayurveda medicine tradition.\*

**Selenium** is a mineral involved in reproductive function and plays a role in oxygen metabolism. It also supports antioxidant and immune defenses.\*

**In addition to the above, LoveRx™ for Women contains the following:**

**Damiana** stimulates the senses, calms anxiety, and relaxes the mind. It promotes euphoria and helps alleviate sexual inhibition caused by stress or emotional troubles.\*

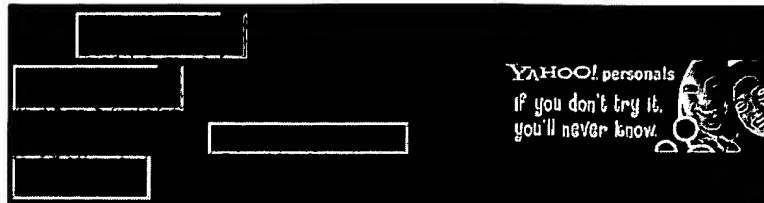
**Dong quai** helps reduce symptoms of premenstrual syndrome, treat cramps and pain during menstruation, and ease menopausal symptoms such as hot flashes and night sweats.\*

**Passionflower** offers relaxing and anti-anxiety effects as well as antispasmodic and vasodilator properties. It helps alleviate premenstrual tension and vaginal discharges.\*

**Calcium** supports the muscle contractions and nerve transmissions necessary to sexual pleasure.\*

**Iron** supports energy metabolism and helps combat fatigue.\*

**Rx** This ingredient is exclusive to Unicity Network's LoveRx formula.



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## Tribulus Terrestris Facts, Information, and Research

### Tribulus Terrestris - The Miracle Herb?

Okay, I'd be kidding you if I told you that Tribulus Terrestris is a miracle herb. ;-) But Tribulus Terrestris isn't far off from being a 'super' herb. Let's see why. First, Tribulus Terrestris is a herb used for its medicinal effects around the world. Tribulus is extracted from the plant, and used as a natural nutritional supplement. It has been used for centuries by the Chinese to calm the liver, treat headaches, dizziness, and premature ejaculation.

So what the heck does Tribulus Terrestris have to do with bodybuilding and fitness? Read on...

### Quick Tribulus Terrestris Facts

Here are some quick Tribulus facts:

- Tribulus Terrestris is ecologically pure
- Tribulus is a natural aid to help impotence, low libido, and male infertility
- Clinically proven effect in enhancing energy and vitality
- Helps build muscle and strength
- Tribulus Terrestris is safe to use and it's not a hormone

### Tribulus Terrestris - Testosterone Enhancer

In bodybuilding, Tribulus is used for its testosterone boosting properties more than anything else. Studies have shown over 50% increase in testosterone levels when taking Tribulus Terrestris. We all know testosterone helps build muscle and strength, that's why some pro athletes use steroids and other prohormones to enhance performance.

You'll be happy to hear that Tribulus Terrestris is NOT a hormone! It works completely different from Andro and DHEA. Tribulus increases testosterone through increasing luteinizing hormone (LH) in your body. LH tells your body to produce testosterone. Why is this beneficial? Simply because Tribulus is not a hormone supplement, it merely works within the body's natural limits helping you achieve muscle and strength.

### Tribulus Research and Studies

Much tribulus research and studies have been conducted, and all have shown positive benefits of supplementing Tribulus Terrestris, and almost no adverse effects. Here are some findings on Tribulus supplementation:

- A study done with healthy individuals taking 750mg of tribulus per day showed a 72% LH increase, and a 41% increase in testosterone.
- In a study conducted with 20 males and females, 75% of the participants had increased endurance

**Weight Loss & Fat Burners**

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75% of the participants had increased endurance, 80% had increased libido and sexual performance, and 95% of the females reported no PMS symptoms.

- A study conducted with 200 males suffering from impotence showed increase in LH and testosterone levels after supplementing Tribulus. The study also found a increase in sperm production.

[>> Click here to see a full list of Tribulus Products](#)

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These statements have not been evaluated by the Food and Drug Administration. These products are not intended to diagnose, treat, cure or prevent any disease, including sexual dysfunction or impotence.

**Try our LoveRX™ today and see the results for yourself risk-free!**

## FREQUENTLY ASKED QUESTIONS

**Q** What if a woman is on hormone therapy or some other type of medication?

**A** If a woman is taking any medication, she needs to consult with her health care practitioner before taking LoveRx™.

**Q** How long will it take before a person knows if the product will work for him or her?

**A** The product works differently for each individual, so people will want to give it time. Some may notice a difference right away, but on average the product will need to be consumed for four weeks or more to feel a difference.\*

**Q** Since LoveRx™ contains vitamins and minerals, do people still need to take a vitamin/mineral supplement?

**A** To ensure you are getting all the vitamins and minerals you need, we recommend people take LoveRx™ along with the Enrich Core Pack™ \*

**Q** Why does the formulation contain L-arginine?

**A** L-arginine is an amino acid that aids the body in producing nitric oxide. Nitric oxide aids circulation to the reproductive organs by relaxing the smooth muscles and expanding blood vessels.\*

LoveRx for Men			LoveRx for Women		
Serving Size 4 Capsules			Serving Size 4 Capsules		
Servings per Container 26			Servings per Container 26		
Amount Per Serving	% Daily Value		Amount Per Serving	% Daily Value	
Vitamin A (as 50% Betatene® [98% from beta-carotene], 50% as palmitate)	2500 IU	50%	Vitamin A (as 50% Betatene® [98% from beta-carotene], 50% as palmitate)	2500 IU	50%

## **Back**

### **Review of selective scientific literature pertaining to ArginMax ingredients.**

It is well established that nitric oxide (NO) is the key mediator for the up-regulation of cGMP which in turn mediates erectile function.<sup>1</sup> **L-arginine** is the precursor of nitric oxide. The conversion of L-arginine to nitric oxide is mediated by nitric oxide synthase (NOS). Increasing tissue L-arginine levels results in the increase of NO and cGMP.<sup>2, 3</sup> Supplementation with L-arginine has been shown to play a role in restoring endothelial-derived nitric oxide production in many disorders in which endothelial-derived nitric oxide is reduced or impaired, including impairment resulting from diabetes and hypercholesterolemia.<sup>4,5,6,7,8</sup> Studies also point to the role of L-arginine as not only a substrate for NOS in the up-regulation of cGMP, but also acts to reduce cell-mediated breakdown of nitric oxide.<sup>9</sup>

The efficacy of **Korean ginseng** (Panax Ginseng) in treating erectile dysfunction was recently demonstrated in a randomized controlled clinical trial involving a total of 90 patients studied over 3 months, 30 each receiving placebo, trazadone, or ginseng.<sup>10</sup> Ginseng was the most efficacious treatment with improvements measured in erectile parameters such as girth, libido, and patient satisfaction. Frequency of intercourse, ejaculations, and erections did not differ among groups. In a controlled study with 66 patients, Panax ginseng was demonstrated to increase spermatozoa count and motility in 66 patients with fertility problems.<sup>11</sup> Ginsenosides (the primary active component of ginseng) have been shown to increase NO production in endothelial cells.<sup>12,13,14</sup> One observed mechanism for increase in NO production is up-regulation of NOS activity by ginsenosides.<sup>14</sup> The effects of ginsenosides on NO production has implications for improved sexual function, and may partly account for the aphrodisiac effect of Panax ginseng used in traditional Chinese medicine.

**Ginkgo biloba** is well established to facilitate microvascular circulation<sup>15</sup> which may physiologically lead to improvement of erections. In addition to ginkgo biloba's ability to facilitate microvascular circulation, potentially benefiting erectile function through enhanced vascular blood flow, there is evidence that ginkgo biloba extract may also directly elucidate smooth muscle relaxation in the corpus cavernosum, likely via effects on the nitric oxide pathway.

<sup>16,17</sup> **B-complex vitamins** are important to the activity of hundreds of enzymes and in energy metabolism. Low levels of circulating folate and vitamin B6 confer an increased risk of peripheral vascular disease,<sup>18</sup> leading to potential reduction of erectile function.

**Zinc** is a fundamental mineral in the maintenance of human reproductive function. Low levels of serum zinc has been shown to cause sexual dysfunction and associated with infertility in males.<sup>19,20</sup> Zinc deficiency during growth periods result in lack of gonadal development in males.<sup>21,22</sup> Zinc deficiency leads to depletion of testosterone and inhibition of spermatogenesis.<sup>23</sup> Zinc is also thought to help extend the functional life span of ejaculated spermatozoa.<sup>23</sup>

**Selenium** has a key influence on spermatozoa numbers and motility. It is an essential element in normal spermatozoa development. Selenium is incorporated in the sperm mitochondria capsule and may thus affect the behavior and function of the spermatozoon.<sup>24</sup> It has been shown that dietary supplementation with selenium-vitamin E statistically significantly increases sperm motility, percent live, and percent normal spermatozoa.<sup>25</sup> It is well established that one of the key roles of seminal plasma is the protection of spermatozoa against reactive oxygen species.<sup>26</sup> In a study of 101 patients seeking consultation for infertility and 15 fertile donors, a strong inverse relationship was found between total reactive antioxidant potential in seminal plasma and infertility.<sup>26</sup>

A pilot clinical study was undertaken to preliminarily evaluate the role of a combinatorial nutritional product which incorporates the previously discussed key ingredients for optimization of nitric oxide production and enhancement of sexual function. In the pilot study, <sup>32,33,34,35</sup> twenty-five study participants were consecutively enrolled through a urology clinic with participation open to all individuals diagnosed with mild to moderate erectile dysfunction of varying etiology. The study instrument was the

International Index of Erectile Function (IIEF). Following the completion of the study, 88.9% of the subjects experienced improvement in ability to maintain an erection during intercourse, and 75.0% experienced improvement in satisfaction with their overall sex life.<sup>32,33,34,35</sup>

The results of the pilot clinical study indicate that an expansion of the study to a larger population with a double-blind placebo-controlled protocol is the logical next step in exploring the sexual function benefits of ArginMax, and the basis for the present study.<sup>36,37</sup>

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## Consumer Information about Viagra

Brand Name:	Viagra
Active Ingredient(s):	sildenafil citrate
Strength(s):	25mg, 50mg & 100mg
Dosage Form(s):	Oral tablet
Company Name:	Pfizer Inc.
Availability:	Prescription only
*Date Approved by FDA:	March 27, 1998

*\*Approval by FDA does not mean that the drug is available for consumers at this time. For availability and other information, you will need to contact your doctor or health care provider.*

### What is Viagra used for?

Viagra is used to treat impotence in men. Viagra increases the body's ability to achieve and maintain an erection during sexual stimulation. Viagra does not protect you from getting sexually transmitted diseases, including HIV.

### Who should not take Viagra?

Men who are currently using medicines that contain nitrates, such as nitroglycerin should not use Viagra because taken together they can lower the blood pressure too much. Viagra should not be used by women or children.

### General Precautions with Viagra:

- You should have a complete medical history and exam to determine the cause of your impotence before taking Viagra.
- Men who have medical conditions that may cause a sustained erection such as sickle cell anemia, leukemia or multiple myeloma or who have an abnormally shaped penis may not be able to take Viagra.
- There are several medications that are known to interact with Viagra, so be sure to tell your doctor about all medications you are taking including those you can get without a prescription.
- Viagra has not been studied with other treatments for impotence, so use in combination with other treatments is not recommended.

**How should I take Viagra?** Your healthcare provider may prescribe Viagra as one tablet once a day, about 1 hour before sexual activity. However, Viagra may be taken anywhere from 30 minutes to 4 hours before sexual activity.

**What are some possible side effects of Viagra?** (This list is NOT a complete list of side effects reported with Viagra. Your healthcare provider can discuss with you a more complete list of side effects.)

Viagra is generally well tolerated. If any side effects are experienced, they are usually mild and temporary. The following is a listing of the most common side effects:

- Headache

# Tribulus Terrestris

## Tribulus Terrestris with LoveRX™

### Natural Tribulus Terrestris to enhance love making

Tribulus terrestris, also known as puncture vine, helps increase testosterone, which triggers both male and female sexual appetite and arousal. Studies have shown a better than 50% increase in testosterone levels when taking the Tribulus Terrestris herb. Its pathway for increasing testosterone differs from both Androstenedione 100 and DHEA. Tribulus exerts its testosterone elevating effect through the increase in luteinizing hormone (LH). LH is responsible for "telling" your body to produce testosterone.

Unicity's sensational product LoveRX™ contains tribulus terrestris in both male and female formulas.

**100% MONEY-BACK GUARANTEE** from the largest nutrition company in the world  
(see ordering section).

**\*\*\* Order today risk-free and begin achieving your sexual health goals \*\*\***

### Clinical Studies on Tribulus Terrestris



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## *Muira Puama (Ptychopetalum)*

**Family:** Olacaceae

**Species:** olacoides

**Common Names:** Muira puama, marapuama, marapama, potency wood, potenzholz

**Parts Used:** Bark, roots

**Medicinal Properties:** Antidysenteric, antirheumatic, antistress, aperitif, aphrodisiac, central nervous system stimulant, nervine, neurasthenic, tonic



Muira Puama is a bush with small white flowers that is native to the Brazilian Amazon and other parts of northern Brazil. Tribes in Brazil have used the roots and bark for years treating sexual debility and impotence, neuromuscular problems, rheumatism, grippe, cardiac asthenia, and gastrointestinal asthenia. Muira Puama has a long history in herbal medicine as an aphrodisiac, a tonic for the nervous system and an antirheumatic.

Early research discovered that the root and bark were rich in fatty acids, essential oils, plant sterols, and a new alkaloid, named muirapuamine. Chemically, muira puama contains 0.05% muirapuamine, 0.4% fat, 0.5% alkaloids, 0.6% phlobaphene, 0.6% alpha-resinic acid, 0.7% beta-resinic acid, 0.5% of a mixture of esters including behenic acid, lupeol and beta-sitosterol, as well as tannin, volatile oils, and fatty acids. Muira puama is still used around the world as a herbal medicine.

While aphrodisiacs remedies have come and gone muira puama has risen to the top of products and may well provide the most therapeutic approach for erectile dysfunctions. However to achieve the beneficial effects of the plant, proper preparation must be employed. The active constituents thought to be responsible for muira puama's effect are not soluble in water, so taking bark or root powder in a capsule or tablet will not be effective.

### **Muria Puama Products**

Item #AD00011

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\* These statements have not been evaluated by the Food and Drug Administration. These products are not intended to diagnose, treat, cure or prevent any disease.

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